# FGDC National Boundaries Group Federal Lands Working Group Face-to-Face Meeting

March 20, 2018

Walter E. Washington Convention Center Washington, D.C.

### What we'll cover . . .

- Welcome and intros
- What's done and next?
- "Common agency needs"
- Making a base map
- Secrets to success
- Group Dinner





# Introductions

# Nice to meet you...



# Announcements

### New FLWG Website

- Fact sheet
- Meeting dates
- Call notes
- Presentations
- PAD-US Action Plan



### PAD-US 2.0 Publication Status

- Expected May 2018
- New database structure manage overlaps
- More documentation
- Federal updates (8)
- State updates (12)
- State and local sliver errors removed
- New NCED easements
- Integrated nonprofit databases TPL, DU, TNC





State Support for America's Inventory of Public Parks and Protected Areas

### FGDC State Lands Working Group

The Protected Areas Database of the United States (PAD-US) is America's inventory of public parks and protected areas. Published by the United States Geological Survey (USGS), PAD-US is a GIS database of over 150,000 sites, totaling 3 billion acres of land and marine protected areas, and includes lands owned outright by agencies and NGOs, and lands with conservation easements.

State Data Stewards, who make up the FGDC State Lands Working Group, are essential partners in building PAD-US, providing data on state, regional and local protected areas for inclusion into each PAD-US release.

While not every state has a public agency, nonprofit or university data steward that is able to assemble this data, many do and it is a top goal of the FGDC National Boundaries Group, led by USGS and the U.S. Census Bureau in coordination with state partners, to seek support for these efforts.

Learn more about State Data Stewards, including contacts, at: www.Protectedlands.net/partners



Coming soon...

- Increase awareness and build support for the state data steward network
- Improve and adopt PAD-US standards for core data attributes
- Increase the efficiency of state and local government updates
- Expand inventory completeness, especially
- Review conservation and recreation measures
- Improve coordination with the FGDC Federal Lands Workgroup
- Share applications and assess needs

Note: State stewards focus on fee lands; conservation easement data is collected by the National Conservation Easement Database and incorporated into PAD-US.



The Proteoted Areas Database of the U.S. - v. 1.4 May 2016

#### How PAD-US is Built

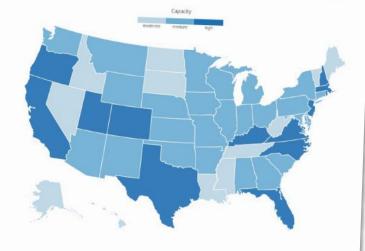




FGDC State Lands Working Group (part of National Boundaries Group) https://eommunities.geoplatform.gov/ngda-govunits/netional-bounderies-group/ Chair, FGDC State Lands Working Group

#### PAD-US State Data Stewards

State data steward agencies and organizations that contribute to PAD-US have varying capacities for management of comprehensive state protected areas data, as the map below indicates. Learn more about data stewards, their contacts, and the completeness of state protected areas data inventories at: https://gapanalysis.usgs.gov/padus/partners/\_ and http://www.protectedlands.net/data-stewards/\_ (access to interactive map below).



The State Lands Working Group (made up of PAD-US state data stewards and advisors) is an element of the National Boundaries Group (NBG), a part of the FGDC National Geospatial Data Asset Theme Community, whose purpose is to develop nationally consistent and accurate boundaries that are integrated using the same geographic base. The NBG coordinates boundary information sharing among federal, state, local, tribal, and private organizations.



**PAD-US Contacts** 

Liss Johnson, PAD-US Coordinator, USGS Cooperator, Lisa Jiohnson@boisestate.adu Mackenzie Case, GIS & Policy Anelyst, USGS Cooperator, MackenzieCase@boisestate.adu

http://gapanalysis.usgs.gov/padus www.protectedlands.net

## Visit the FGDC Booth!





(T714)

# Attend the NBG meeting!

Wednesday, March 21st

1:00 - 3:00 ET

**Convention Center** 

**Room 141** 

# Vision and Goals

### What do we all want?

- Find out about any park or protected area
- Anywhere in the U.S.
- All in one data set

That's the vision for PAD-US





















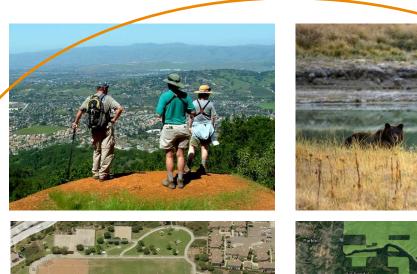






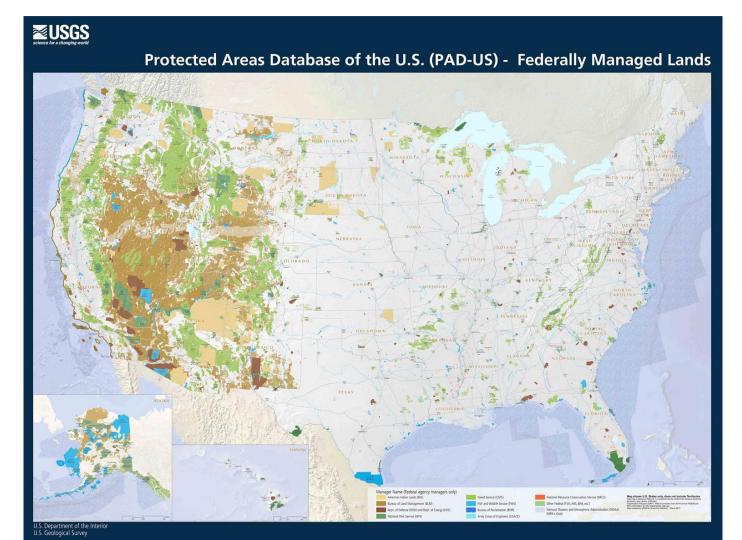


## Lands for recreation, habitat, timber and more

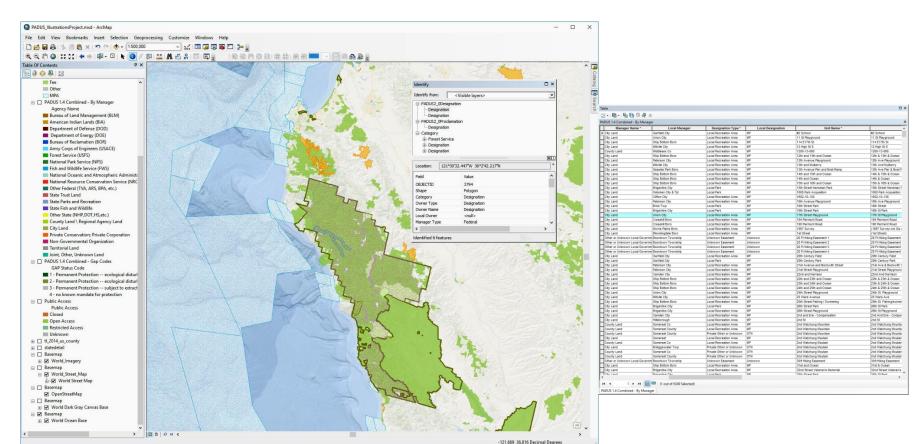








### **GIS** data



### **Supports many users**

"Federal"

Owner and Manager

**Agency Type** 

Source data or standardized

"State Park"

"National Park Service"

**Agency Name** 

"State Parks and Rec"

Acres

"Local Gov"

Fee or Easement

**Designation Type** 

Date of Establishment

"National Wildlife Refuge"

"National Forest"

**Unit Name** 

**Biodiversity protection status** 

**GIS Source** 

WDPA Code

**State Name** 

**Public Access** 

Open, Closed, Restricted

### **Federal Lands Vision**



### Complete Accurate Standardized Annual

aggregation of federally owned lands and waters

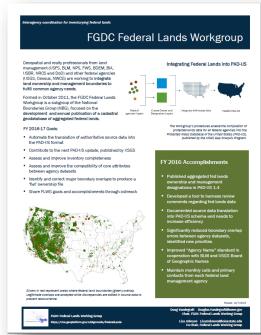
with management designations to fulfill **common** agency **needs**.

Aiming for: full parcel-based inventory + automated updates

# **Accomplishments** and Goals

### **FLWG Fact Sheet**

- 14 land managing and related agencies
- Collaboration to support aggregation of federal land ownership and management designations into PAD-US
- Sharing best practices, improving internal systems, raising awareness







# **Automated updates**













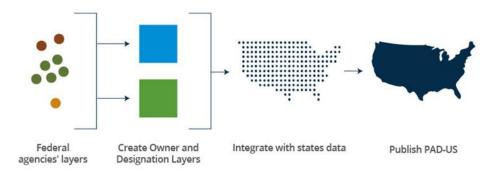




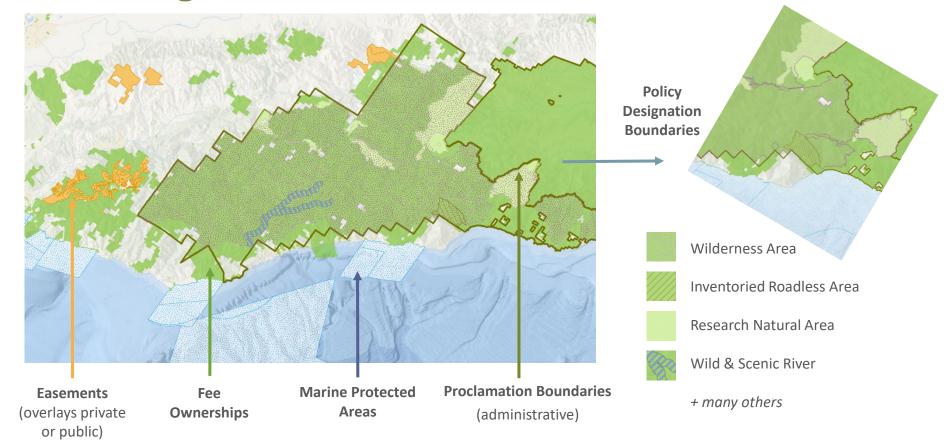




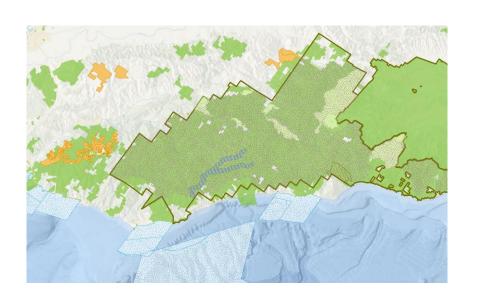


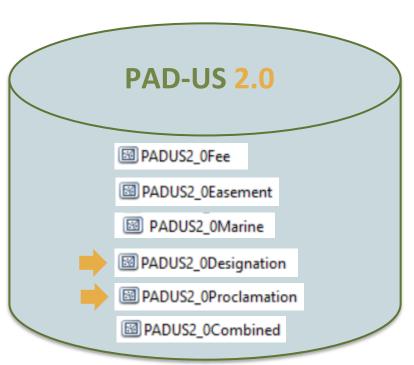


# A better geodatabase



# A better geodatabase





# **Tracking Source Data**

 ProtectedLands.net
 Stewards
 Grant Programs
 PAD-US Editions
 Download
 Log Out

Show 1	00 ▼ entries (any state) ▼ (any level) ▼					Search:	
↓ <u>↓</u> State	↓↑ Organization Name	↓↑ Type	L↑ Completeness	↓↑ Capacity	↓↑ Grants	Data 🎵 Updates	Communications 1
*	<b>♂</b> Forest Service	Federal	99	High	0	9	0
*	☑ Census Bureau (state lines)	Federal	100	High	0	1	1
	☑ National Park Service	Federal	95	High	0	2	0
*	<b>☑</b> Department of Defense	Federal	79	High	0	1	0
*	<b>☑</b> Bureau of Ocean Energy Management	Federal	95	High	0	4	0
*	☑ National Oceanic and Atmospheric Administration	Federal	95	High	0	1	0
*	☑ Natural Resources Conservation Service	Federal	85	High	0	1	0
*	<b>☑</b> Bureau of Reclamation	Federal	50	Moderate	0	1	0
*	<b>♂</b> Army Corps of Engineers	Federal	80	Medium	0	2	0
*	<b>☑</b> Bureau of Land Management	Federal	85	High	0	11	3
*	☑ Fish and Wildlife Service	Federal	89	High	0	6	1
*	☑ National Park Service	Federal	95	High	0	4	2

# **Agency Reporting**

#### **ESTIMATED FEDERAL LANI**

Individual federal agency estimate including fee parcels, easement in

National Park Service Forest Service Fish and Wildlife Service Bureau of Land Management Army Corps of Engineers Department of Defense Bureau of Reclamation Protected Areas Database of the United States (PAD-US) - Data Steward Report

#### FEDERAL

#### **Forest Service**



Steward program description: Established in 1905, the Forest Service is an agency of the U.S. Department of Agriculture and manages national forests and grasslands which encompass 193 million acres of land in almost 300 separate units. The Service's Automated Lands Program (ALP) provides data on these lands to PAD-US.

#### Steward Information

Program Name: Washington Office-Lands and Realty Management-Automated Lands Program

Organization Status: Active

Program Status: Active

Website: https://www.fs.fed.us/

Data Download URL:

https://data.fs.usda.gov/geodata/edw/datasets.php?

xmlKeyword=PADUS

Other Page or Portal: https://www.fs.fed.us/land/staff/index.shtml

#### **Primary Contact**

Troy Warburton, ALP Program Manager Organization: Forest Service <a href="mailto:trwarburton@fs.fed.us">trwarburton@fs.fed.us</a> / 801-975-3433

#### Secondary Contact

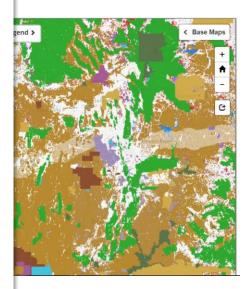
Holly Martin, Data Analyst Organization: Forest Service <a href="https://hub.com/hbmartin@fs.fed.us">hlmartin@fs.fed.us</a> / 503-729-6676 This report is in support of PAD-US, the Protected Areas
Database of the US, published by USGS. Information on PAD-U
data stewards can be found at the <a href="https://www.ProtectedLands.net">www.ProtectedLands.net</a>
PAD-US companion website. More information about PAD-US
available on the USGS PADUS website:
<a href="https://gapanalysis.usgs.gov/padus">https://gapanalysis.usgs.gov/padus</a>

#### Current Completeness of Agency Data: 99 %

Notes: Fee parcel ownership, easement interest and designations (congressional and executive) for all USFS lands available in PAD-US format from national data steward. Active participation in FGDC Federal Lands Working Group. Improved administrative designations (complete RNAs, national grazing/mining allotments, etc.) are needed to better represent biodiversity protection and/or recreation opportunities on multiple use lands.

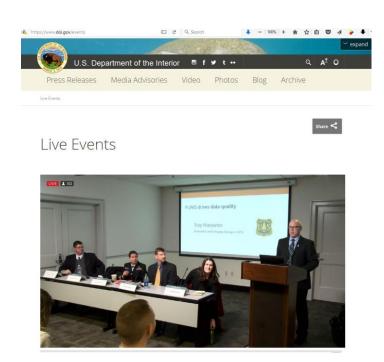
#### Updates Contributed to PAD-US

opuated contra	Dated to 1715 GG	
PAD-US 2.0	Other Designated	September 2017
PAD-US 2.0	Easements	September 2017
PAD-US 2.0	Spec. Interest Area	September 2017
PAD-US 2.0	Wilderness	September 2017
PAD-US 2.0	Wild/Scenic Rivers	September 2017
PAD-US 2.0	Roadless Areas	September 2017
PAD-US 2.0	Withdrawal Areas	September 2017
PAD-US 2.0	NFS Land Units	September 2017
PAD-US 2.0	Surface Ownership	September 2017



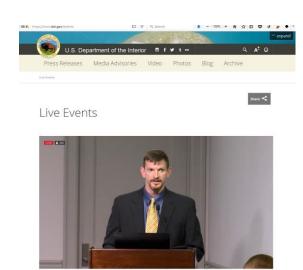
# DOI Office of Policy Analysis – July 9th

- Lisa Johnson PAD-US Coordinator, U.S.
   Geological Survey Cooperator
- Troy Warburton Automated Lands Program Manager, U.S. Forest Service
- Ron Salz Chief Cartographer, U.S. Fish & Wildlife Service
- Doug Vandegraft Chief, Geospatial Services
   Division, Bureau of Ocean Energy Management
- Bob Ratcliffe Chief, Conservation and Outdoor Rec, National Park Service



# Congressional Research Service update – July 10th

- What's new in 2?
- Update on known data gaps
- Representation in U.S. Territories?
- How to manage overlaps
- Military land updates? Previous version only included major installations
- Possible to include attributes (#bldg, #facilities, etc.) from Military Infrastructure Capacity Report?



# Common Agency Needs

### Many uses...

Conservation

Recreation

Land use planning

Fire and hazards

Federal ownership

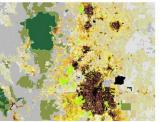
Public lands

Natural resource management

Global reporting

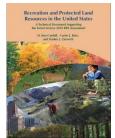
















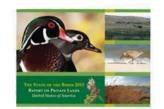














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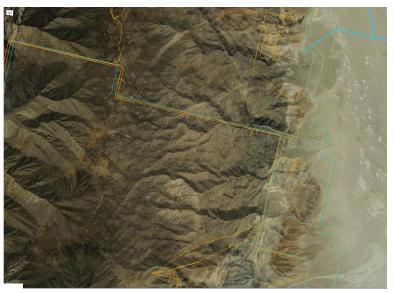
### Congressional Research Service – Current Uses

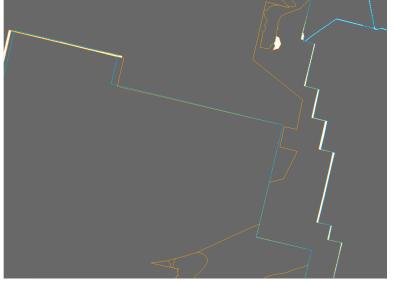
- Updated Federal ownership maps
- Public ownership by congressional district
- Agency specific lands in state or congressional district
- Designation boundaries (Parks, Monuments, etc.)
- Identifying military installations for gov reports
- Locating federal areas in U.S. Territories



### Improve data quality

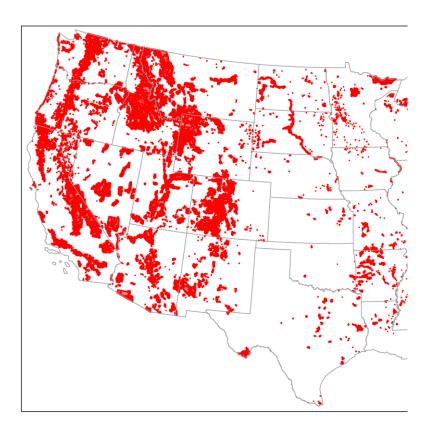
Identify, manage and correct **boundary** overlaps

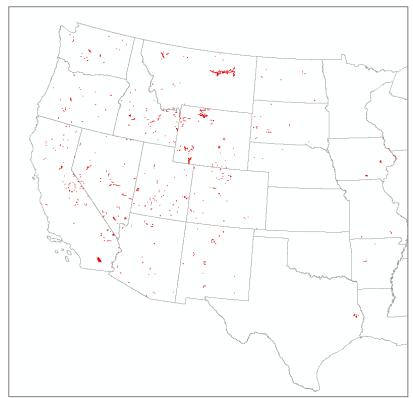






# Improve data quality





### Improve data quality

- Review tool suggest edits to reduce topology overlaps
- Revise linework or attributes
- Review federal and state (other) overlaps
- Census state boundary standard address slivers



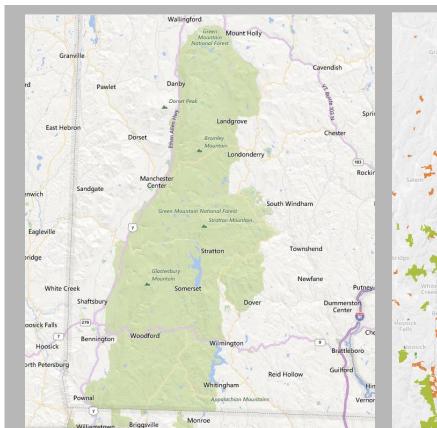
### Improve attributes

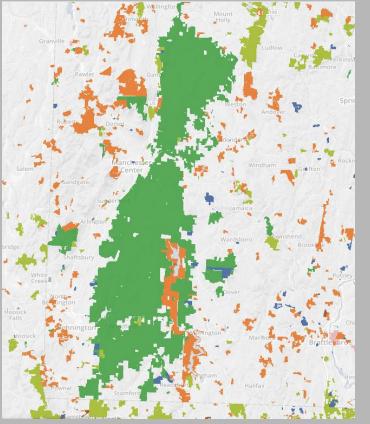
- Category esp Fee parcel
- Owner / Manager Name
- Unit Name Proper Case, no acronyms, designation type included
- **Designation Type** vs *Local* Type
- Public Access (open, restricted, closed)
- GAP Status Code (biodiversity, multiple use, no known protection)

- National Park
- Conservation Area
- National Wildlife Refuge
- Wilderness Area
- Wild and Scenic River
- Wilderness Study Area
- National Scenic Botanical or Volcanic Area
- National Lakeshore or Seashore
- Inventoried Roadless Area
- Area of Critical Environmental Concern
- Research Natural Area
- Mitigation Land or Bank

# Making a base map

# Base maps and authoritative data







# FLWG Feedback

### What makes the FLWG successful?

- Quality product (PAD-US) meets common agency needs
- Compelling derivative products for stakeholders
- Shared goals, vision and ownership
- Plain, focused and action-oriented
- Flexible contributions by participants
- Right people, right organizational levels
- Regular communication
- Trust, commitment, follow-through



## Keeping up the momentum

- Ensure representation during meetings
- Build support for workplan how can we help you?
- Pass the baton connect colleagues, esp during transitions
- Post short FLWG overview
- Post full PAD-US overview





### Focus on **Priorities**

- Automate updates
- Complete inventory
- Add persistent ID
- Expand outreach
- Improve Fee topology

#### **A Better Geodatabase for PAD-US**





### Let's eat!





